



A.H. Hoffman, Inc.
P.O.Box 290
Lancaster, NY 14086

Date: June 1, 2000
MSDS No.: SP65505 (d)
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MATERIAL SAFETY DATA SHEET

NITRATE OF SODA (16-0-0)

SECTION I - MATERIAL IDENTIFICATION AND INFORMATION

Nitrate of Soda
Product #65505

Chemical Name: Sodium Nitrate	Chemical Name: Nitrates	CAS No.: 7631-99-4
Trade Name: Bulldog Soda	Synonyms: Soda Niter	Percent (Min.): 97.0
Chemical Formula: NaNO_3	Description: Prills (Pellets) White Solid	Mol. Wt.: 85.01

SECTION II - MANUFACTURER INFORMATION

Manufactured by:
A.H. Hoffman, Inc.
167 Greenfield Road
Lancaster, PA 17605-2400

SECTION III - INGREDIENTS

<u>Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u>	<u>Significant Effects</u>
Sodium Nitrate	No Information Available	None Established	No Information Available	None Established



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SECTION IV - FIRE AND EXPLOSION DATA

Flash Point (Method used):	Not Applicable
Flammable Limits:	No Information Available
OSHA Classification:	Class 1 Oxidizer
Flammable Explosive Limits:	LEL: Not Applicable
	UEL: Not Applicable
Extinguishing Media:	Small Fires: Dry Chemical CO ₂ , water spray or foam.
	Large Fires: Water spray, fog or foam
Special Fire Fighting Procedures:	Remove containers from fire if possible without risk. Cool containers exposed to flames with water. Use NIOSH/MSHA approved self-contained breathing apparatus where this material is involved in a fire.
Unusual Fire and Explosion Hazards:	Oxidizer. Keep away from reducing agents, will explode if heated to 1,000°F in presence of reducing agents, organic materials or mixed with cyanides. Yields gaseous oxides when heated.

SECTION V - HEALTH HAZARD DATA

Health Hazards	Acute Exposure:	Irritation of skin and/or mucous membranes. Ingestion of large amounts causes violent gastroenteritis.
	Chronic Exposure:	Anemia, methemoglobinemia, nephritis. Route of exposure include inhalation, skin contact and ingestion.
Symptoms of Overexposure:		Dizziness, abdominal cramps, vomiting, headache, mental impairment, cyanosis.
Carcinogenicity:		Sodium Nitrate has not been directly implicated as a carcinogen. A constant oral intake of nitrate containing foods or water could lead to formation of carcinogenic N-Nitroso compounds.

EMERGENCY FIRST AID PROCEDURES

SKIN:	Flush thoroughly with water.
EYES:	Flush with water for 15 minutes, call a physician.
INGESTION:	Drink water, induce vomiting by sticking finger down throat, call a physician.
INHALATION:	Remove victim to fresh air, call a physician.



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SECTION VI - TOXICOLOGY (PRODUCT)

Acute Oral LD 50: 4.3G/Kg (Rats)
Acute Dermal LD 50: Not Determined
Acute Inhalation LC50: Not Determined

Carcinogenic: Not known to be carcinogenic.
Mutagenic: Not known to be mutagenic.
Eye irritation: May be an irritant.
Primary skin irritation: May be an irritant.

Principal routes of absorption:

Oral, inhalation, skin

Effects of acute exposure:

dizziness, abdominal cramps, vomiting, headache, mental impairment, cyanosis, may cause skin, eye and mucous membrane irritation.

Effects of chronic exposure:

Non expected at industrial use levels.

SECTION VII - REACTIVITY DATA

Stability (under normal conditions):

Stable: ☒

Unstable: ☐

Incompatibility (material to avoid):

Avoid contact with reducing agents and flammable or combustible materials.

Hazardous Polymerization:

May occur: ☐

Will not occur: ☒

Hazardous decomposition:

Produces oxides of nitrogen.

SECTION VIII - PHYSICAL DATA

Boiling Point (°C)
380° (Decomposes)

Melting Point (°C)
306.8

Vapor Pressure (MM/Hg)
Not Applicable

Appearance
White Prills (Pellets)

Solubility in water
91.9g/100ml at 25°C

Specific Gravity (H₂O = 1)
2.26

Vapor Density (Air = 1)
Not applicable

Evaporation Rate
No information available



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SECTION IX - SAFE HANDLING & USE PRECAUTIONS

Waste Disposal Method:	Sanitary landfill in accordance with federal, state and local regulations.
Steps to be taken in case material is released or spilled:	Wear impervious gloves, boots, wear goggles, coveralls. Wear NIOSH/MSHA approved dust respirator. Sweep or shovel up spilled material.
Other precautions:	Wood and empty paper bags used to hold this product should be removed from the premises.
Handling and storing precautions:	Store away from reducing agents and liquids of low flashpoints. Storage area should be cool, dry, well ventilated and fireproof.

SECTION X - CONTROL MEASURES

Respiratory protection:	NIOSH/MSHA - Approved dust type respirator
Protective gloves:	No special gloves needed.
Other protective clothing or equipment:	Coveralls and impervious boots
Ventilation:	Mechanical (General)
Eye Protection:	Goggles
Work/Hygienic Practices:	Follow recommendations in Section IX safe handling and use precautions and wash skin and clothing after contact.

Manufacturer's Notice

The information contained herein is based on the data available to us and is believed to be correct. However, Hoffman makes no warranty, expressed or implied, concerning the accuracy or completeness of this information. Hoffman assumes no responsibility for injury to vendee or third parties from the use of the product described herein.